

ASAP  
**Work Order ID 62704**

Wednesday, October 06, 2010 11:27:39 AM

**PRELIMINARY ISSUE**

POSITIVE  
RECALL

Page 1

Item ID: D4176-3

Accept

Revision ID: PRELIM

Item Name: 429 Clamp, Bottom

Start Date: 10/6/2010 Start Qty: 6.00

Required Date: 10/15/2010 Req'd Qty: 6.00

Reference:

Cust Item ID:

Customer:

Approvals:

Process Plan: *D*

Date: *10-10-06*

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

D4176

*PAI* *A* *20*

100

0.00

Waterjet

Memo

0.00

FLOW CNC Waterjet

1-Cut as per Dwg

Dwg Rev: *PAI*

Prog Rev: *PAI*

2-Deburr if necessary

110

QC2- Inspect parts off machine FAI/FAIB

0.00

QC

Memo

0.00

Quality Control

*B10-10-7*  
*(10)*  
**MATERIAL CERTIFICATION**  
**REQ'D UPON DELIVERY**  
*10/10/07*  
*B10-10-7*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 62704**

Wednesday, October 06, 2010 11:27:39 AM

Page 2

Item ID: D4176-3

Accept

Revision ID: PRELIM

Item Name: 429 Clamp, Bottom

Start Date: 10/6/2010 Start Qty: 6.00

Required Date: 10/15/2010 Req'd Qty: 6.00

Reference:

Cust Item ID:

Customer:

Approvals:

Process Plan: \_\_\_\_\_

Date: \_\_\_\_\_

Tooling: \_\_\_\_\_

Date: \_\_\_\_\_

QC: \_\_\_\_\_

Date: \_\_\_\_\_

SPC (Y/N): \_\_\_\_\_

Date: \_\_\_\_\_

Run

Start

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

120

QC8- Inspect parts - second check

0.00 - inspection to PA1



QC

Memo

0.00 8/10/10/07 (40)

Quality Control

130

Form as per dwg

0.00



Brake NC

Memo

0.00

Brake NC

140

QC5- Inspect part completeness to step on W/O

0.00 - measure to dwg.



QC

Memo

0.00 Didn't test fit

Quality Control

0.00 Parts in.  
8/10/10/07 (40)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			



**NOTE:** Date & initial all entries



# Work Order ID 62704

Wednesday, October 06, 2010 11:27:39 AM

Page 3

Item ID:	D4176-3	Accept		Setup	Start	
Revision ID:	PRELIM				Stop	
Item Name:	429 Clamp, Bottom					
Start Date:	10/6/2010	Start Qty:	6.00		Cust Item ID:	
Required Date:	10/15/2010	Req'd Qty:	6.00		Customer:	
Reference:						

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	
	QC:	Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150  Packaging Packaging	Identify as per dwg & Stock Location: _____  Memo	0.00  0.00				<i>mf</i>		<i>10-11-15</i>	
160  QC Quality Control	QC21- Final Inspection - Work Order Release  Memo	0.00  0.00							

*W. PAT test 10.10.15*  
*Rev A*

*OK 10/11/15. QC21 TO Ret A. 5*  
*mf*  
*5 USED FOR FLIGHT TEST + RETURNED TO DAS ENH. 10-11-15*

*5 TO BE STOCKED*  
*10.11.12*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Wednesday, October 06, 2010 11:27:43 AM

Page 1

Work Order ID: 62704



Parent Item: D4176-3



Parent Item Name: 429 Clamp, Bottom

Start Date: 10/6/2010

Required Date: 10/15/2010

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP Rev:A 10.09.29 new issue DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

M304S14GA

Purchased

No

100

sf

105.3108

0.0025

0.015789



1310-10-7

.304SS sheet .080

Location

Loc Qty

Loc Code

MAT20

105.3108

113295

105.3108

113295

10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

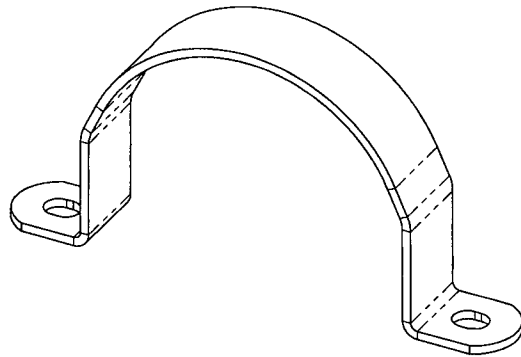
Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

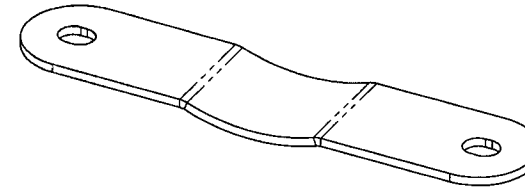
**NOTE:** Date & initial all entries







**D4176-1 429 CLAMP, TOP**



**D4176-3 429 CLAMP, BOTTOM**

*W062704*

**PRELIMINARY ISSUE**

10.09.27

**NOTES:**

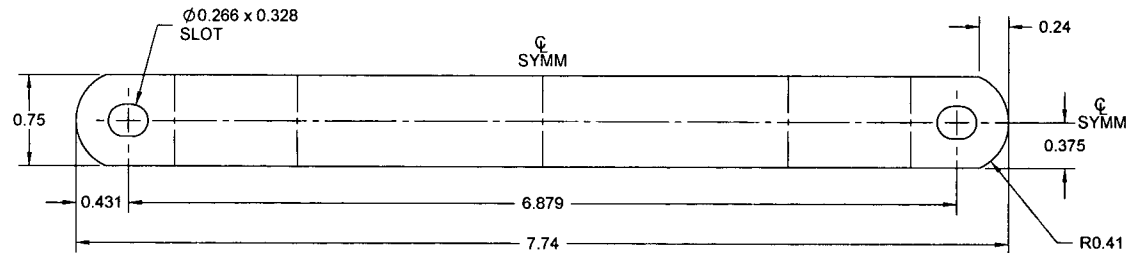
- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET ANNEALED 2B FINISH, 14 GAUGE (0.078 THICK)  
PER AMS 5513 (304) OR 5524 (316) OR ASTM A240 OR ASME SA240  
REF. DART SPEC. M304S14GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4176-1" PER QSI 044 6.1
- 7) WEIGHT:
  - D4176-1 = 0.12 lbs
  - D4176-3 = 0.08 lbs

PA1	NEW ISSUE	MB	10.09.27
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.09.27		

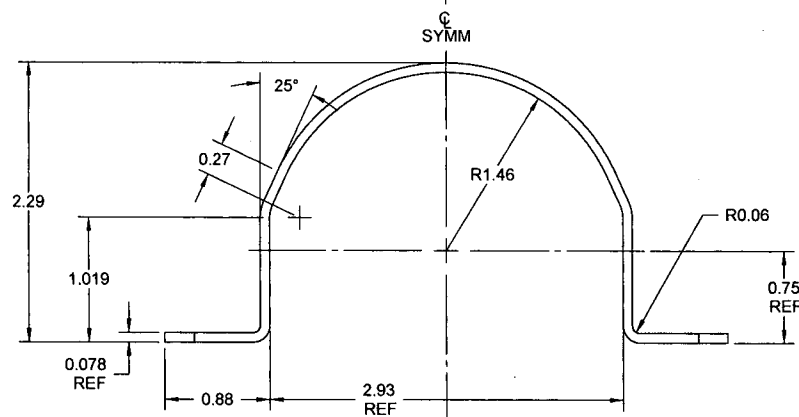
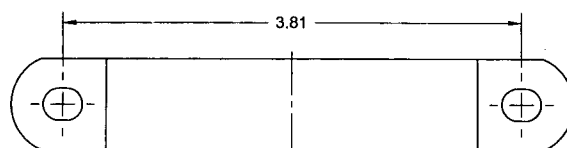
  

<b>DART AEROSPACE LTD</b>		REV. PA1
HAWKESBURY, ONTARIO, CANADA		SHEET 1 OF 3
DRAWING NO.	D4176	SCALE
TITLE	429 CLAMP	NTS

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**D4176-1F 429 TOP CLAMP FLAT PATTERN**

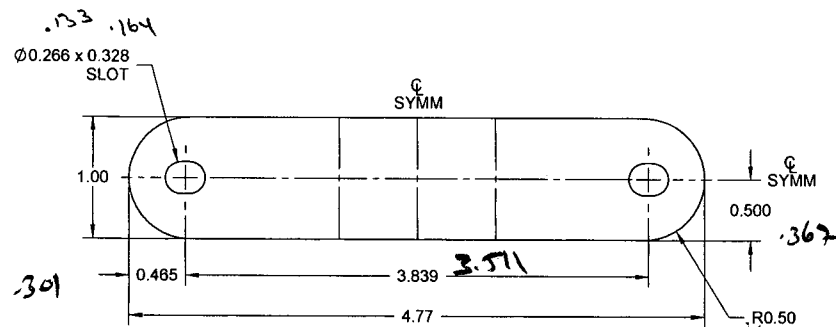


**D4176-1 429 CLAMP, TOP**  
 MAKE FROM D4176-1F)

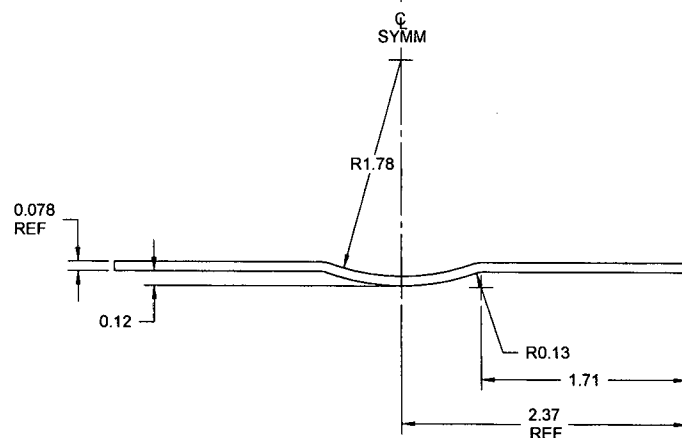
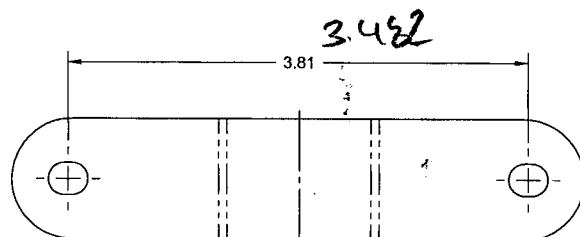
**PRELIMINARY ISSUE**

10.09.27

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CHECKED		DRAWING NO.	REV. PA1
MFG. APPR.		D4176	SHEET 2 OF 3
APPROVED		TITLE	SCALE
DE APPR.		429 CLAMP	NTS
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**D4176-3F 429 BOTTOM CLAMP FLAT PATTERN**



**D4176-3 429 CLAMP, BOTTOM**  
 (MAKE FROM D4176-3F)

**PRELIMINARY ISSUE**

10.09.27

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. PA
MFG. APPR.		D4176	SHEET 3 OF
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## Receiving Report

Date: 9/14/27

Batch No: M113295

Supplier: MAGNA

Dart P/O: 10809

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☐ No ☒ N/A ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC6 Inspection ☒ N/A ☐  
 Work Order 0214630 N/A ☒

**Discrepancies**

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 9/14/30  
 Date [Signature]  
 Received/Costing [Signature]  
 Initial [Signature]

Location

## Purchase Order Receipt Listing

Page 1 of 1

November 30, 2009 7:51:48 AM

All amounts are calculated in domestic currency.

All Vendors   PO ID PO10809   Receipt Dates from 11/30/2009 to 11/30/2009   All Line Item Types

All Item ID/GL/WOs    All Rec. Employees    All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-MAG002	Magna Stainless								
PO10809	1		M304S14GA	sf	11/24/2009	11/30/2009	160.0000	\$7.50	0.0000	0	\$1,200.00
CAD	No		304SS sheet .080 113295	sf	160.0000	Stores		\$1,200.00	0.0000	0	
	2		M304S16GA	sf	11/24/2009	11/30/2009	320.0000	\$5.31	0.0000	0	\$1,700.00
	No		304/316 Sheet .063 113295	sf	320.0000	Stores		\$1,700.00	0.0000	0	
	3		M304R1.750	f	11/24/2009	11/30/2009	12.1000	\$20.58	0.0000	0	\$249.05
	No		304 ROUND BAR 1.750 113295	f	12.0000	Stores		\$249.05	0.0000	0	
	4		M303R0.750	f	11/24/2009	11/30/2009	12.1000	\$3.83	0.0000	0	\$46.38
	No		303 Round Bar 0.750 113295	f	12.0000	Stores		\$46.38	0.0000	0	
Total Received Quantity:										504.2000	
Total Qty to Inspect (PO U/M):										0.0000	
Total Reject Quantity:										0.0000	
Total Receipt Value:										\$3,195.44	
Total Balance Due Quantity:										0.0000	

# MAGNA

## Magna Stainless

5775 Kieran St, Saint-Laurent, Quebec H4S 0A3  
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105



## PACKING LIST

Page 1 of 1

I020078

SOLD TO  
DART AEROSPACE LTD  
1270 ABERDEEN STREET

SHIP TO:  
DART AEROSPACE LTD  
1270 ABERDEEN STREET

HAWKESBURY, ON  
K6A 1K7  
Contact: CHANTAL

HAWKESBURY, ON  
K6A 1K7  
Ship Terms: PREPAID

MTR:Y

SPECIAL INSTRUCTIONS

Currency	Sales Person	Customer Phone	Customer Fax	Customer PO	
CANADIAN DOLLARS	ERYCK BLAIS	(613) 632-5200	(613) 632-1053	P010809	
Sales Order	Terms	Ship Via	Date Ordered	Date Required	Date Shipped
W021806	NET 30 DAYS	NIR:R-557065-1	11/20/09	11/27/09	11/27/09

Ordered	Back Ordered	Unit	Description	Bundle #	Heat #	Shipped
1		PC	STAINLESS ROUNDS SRB 304 1-3/4" x R/L 12'10" 100 LB / 1 PC	L029520	79354	1
1		PC	SRB 303 3/4" x R/L 12'1" 20 LB / 1 PC	L031096	423312	1
5		PC	STAINLESS SHEET SSH 304 2B 14ga x 48" x 96" 525 LB / 5 PC	C030389	829393	5
10		PC	MUST USE HT # 829393 SSH 304 2B 16ga x 48" x 96" 840 LB / 10 PC	A030388	829394	10
Bundles: 1			Skids: 1	Approx Weight:		1,485 LB

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_

**VIRAJ PROFILES LIMITED**

10 IMPERIAL CHAMBERS, FIRST FLOOR,  
WILSON ROAD BALLARD ESTATE  
MUMBAI 400 038 INDIA

**INSPECTION CERTIFICATE****CUSTOMER:**

MAGNA STAINLESS INC (DIV OF CANADIAN  
SPECIALTY METALS INC.)  
5775 RUE KIERAN ST LAURENT  
QUEBEC H4S 0A3

**ORDER NO.:**

P003627

**PACKING LIST NO.:**

IMP/102069

**INSPECTION NO.:**

IMP/102069/B

**DATE**

19/05/2009

**BUNDLE NO.:**

2051172

**GRADE**  
T-304/304L

**DESCRIPTION:**

STAINLESS STEEL ROUND BARS L/C NO.: 1700448 DT: 16/06/2009

Salulzo 9.11.30

**PEELED & POLISHED**

SIZE (INC)	SHAPE	TOLERANCE	LENGTH (FT)	PIECES	WEIGHT (LBS)
1 3/4	ROUND	ASTM A484	12' R/L	13	1369

**CHEMICAL ANALYSIS**

HEAT NO.		79354								
C	Mn	Si	S	P	Ni	Cr	Mo	Cu	N	Co
0.022	1.44	0.42	0.024	0.036	8.05	18.10	0.50	0.48	0.081	0.12

**TEST RESULT**

2% YIELD STRENGTH KSI	TENSILE STRENGTH KSI	ELONGATION %	REDUCTION OF AREA %	HARDNESS BHN	GRAIN SIZE
44	92	56	70	185	6

**Specification:**

MATERIAL CONFORMS TO ASTM A 276-06, COND. A, A 479/479M-06a, COND. A, A 183/183M-06a & A 320/320M-05a B8 CL1, A484-06b, A 182/182M-06 COND. A, ASME SA 479-98, COND. A, SA 183-98 B8 CL1, SA 320-98 B8 CL1, SA-182-98 (CHEMISTRY ONLY), NACE MR0175-2002, AMS QQ-S-763 B-06, COND. A, (EXCEPT MARKING), AMS 5639G/5847H (EXCEPT MARKING), INTERGRANULAR CORROSION TEST AS PER ASTM A 262-02a PRACTICE E, GRAIN SIZE AS PER ASTM E 112-96a1, IMPROVED MACHINABILITY QUALITY, UNS-S-30400/S-30403 CERTIFICATE AS PER EN 10204-3.1.

**Remarks:**

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MICRO: FREE FROM CONTINUOUS MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 1hr min, WATER QUENCHED, MELT SOURCE AOD, MELT & MANUFACTURED IN INDIA COUNTRY OF ORIGIN: INDIA. WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION.

We hereby certified that the material described above has been tested and complies with the terms of order/contract.



WORKS INSPECTOR



# Acciaierie Valbruna S.p.A.



## CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.  
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Cliant  
VALBRUNA CANADA LTD  
8724 HOLTGATE CRESCENT  
L5T 5Z1-MILTON, ONT L5T 5Z1-CAN

Produttore: ACCIAIERIE VALBRUNA S.P.A.  
Hersteller/Bev./Usine producer

Avviso di Spedizione: D-VI09017149  
Lieferungsanweisung/Packing Instruction

Ordine nr: 907002333 Stock - Canada  
Bestell/Your order/Commande

Certificato nr: MEST774991/2009/  
Prüfung/Test/Essai

Conferma ordine nr: EI09004135  
Works/Our Order/Ref. nr.

Marchio di Fabbrica:  
Zeichen des Lieferanten  
Trade mark  
Signe de l'usine productrice

Parzone del Collaudatore:  
Stempel des Werksachverständigen  
Inspector's stamp/Poligon de l'essayeur



Oggetto Prove: - Annealed Cold Drawn  
Prüfgegenstand/Item inspected/Échantillon

Tipo di Elaborazione: E+AOD  
Erschmelzungsart/Hotting process/Mode d'élaboration

Specifiche:  
Anforderungen / Requirements / Exigences

VAL CANADA 2 303 A,CF  
ASTM A314 2008 S30300  
DOD-F-24669 6 S30300  
(Q) SEC. II PT.A 2007 EDITION ADD. 2008a

AMS 5640 U TYPE1  
ASTM A320 2008 B8F  
MIL-S-862 B/1 303

ASME-SA328 2007 B8F (Q)  
ASTM A582 2005 S30300  
QQ-S-764-B2 303

Qualità: 303  
Werksstoff/Grade/Qualité

Marc: MV188ZHS MAXIVAL  
Markenbezeichnung/Brand/Marque

Parzonatura: 303  
Kennzeichnung/Marking/Marquage

Pos. nr. Pos. nr. Nr. du poste	Oggetto Objet Description Description du produit	Dimensioni - in Dimensions Dimension Dimension	Tolleranza Tolérance Allowance Tolérance	Lunghezza - in Length Longiti Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Lose: Lot nr. Lot nr.
0010	Round	0,7500	484-06B	146 / 147	423312		4.744	834700760

Sono state soddisfatte tutte le condizioni richieste  
Die gestellten Anforderungen sind erfüllt. Anhang erfüllt.  
The material has been supplied in accordance with the requirements.  
Le matériel a été livré conforme aux exigences.

Controllo antimescolanza: OK  
Verwechslungsprüfung: spezialanalytisch durchgeführt  
Antimixing testing performed: OK  
Controlle antimesclage fait: i.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze:  
Blickprüfung und Ausmessung: ohne Beanstandung  
Visual inspection and dimensional checks: satisfactory  
Controlle visuel et dimensionnel: satisfaisant

TEST ALLO STATO DI FORNITURA										
Test on delivery condition    Prüfung auf lieferbarem Produkt    test à l'état de livraison    Prueba sobre el material así como entregado										
TEST	Provetta/Probenscheit Specimen/Échantillon Long diam. Spec. Größe Diam. Stück Wuch. Diam. Échantillon Long. diam. spéc. mm	°F	Pezzo Stück Liquor Liquor n	Snervamento Streckgrenze Yield Stress Limite élastique Rp 0,2% k.s.i.	Snervamento Streckgrenze Yield Stress Limite élastique Rp 0,2% k.s.i.	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Einschnürung Reduction of area Striction RA %	Resistenza Hochdruckfestigkeit Impact Value Resistance	Durezza Härte Hardness Dureté HB
Valori richiesti / Anforderungen/Required values Valeurs demandées		min max		30	-	75	-    35	-    50	-	140 241
A	12,5	68    L		70		101	43	51		239

(K=longitudinalrifting, T=transversalrifting, O=Transversalerfängnis)

### Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata Heat Schmelze/Heat	min - max 0,150	1,00	2,00	17,00 18,00	0,00	1,00	8,00 10,00	-	0,15 0,40	0,15 0,40	0,400	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	Zr %				
423312	0,035	0,45	1,96	17,68	0,35	0,60	8,50	0,109	0,03	0,33	0,004				

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940°F for 0,5h water.

Micro and macro etch test: OK

Material is DFARS Compliant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex 1, s. 4.3 by TÜV and LLOYD'S

Vicenza, 29/07/09

VO0010  
(Cod. MCER)

Il collaudatore di stabilimento / der Werkssachverständiger / Works Inspector / L'agent d'usine

M. Rizzoli

Pagina - 1 di 1

P606632-423312

PO05349 - 829393

NOTICE OF SHIPMENT/  
PACKING LIST



CERTIFICATE OF TEST

AL 6168-3 908

CUST. ORD. NO. & DATE 05349			CUST. CODE 06/05/09 574738			ACCEPTING MILL VANDERGRIFT, PA.			SHIPPER NO. 427038			PRODUCT CODE 13020102060000			MILL ORDER NUMBER 30-069-202			DATE SHIPPED 08/06/09		
FORMS DISTRIBUTION SOLD TO 1 SHIP TO 1 SPEC TO			REPEAT ORDER 94045-0			DO RATE 28			GOVT CONTRACT 7219.14.0000			MATERIAL 1121 VANDERGRIFT			SHIPPING LOCATION PA			INVOICE 668451		
MAGNA STAINLESS 5775 KIERAN ST. QUEBEC CANADA H4S 0A3 SAINT-LAURENT									COILEX 1450 GRAHAM BELL QUEBEC ZIP CODE: J4B 6H5 BOUCHERVILLE CN											

8/9/10

GRADE AND SPECIFICATIONS  
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A) (ASTM-A-370-09)

ITEM	PCS	DIMENSIONS W/G/L	HEAT #	COIL #	TEST #	GROSS	TARE	NET	THEO	TAG #/	CD	SKID #
001	1	48./075/2021	829393	07109N172	8763075	21130	50	21080		651551		
		C CUST IDENTITY 304B075X48										
		1 SKID				21130	50	21080				

ORDER REMARKS: EXW - EXCEPT VAT AND OTHER APPLICABLE LOCAL TAXES WHICH ARE THE RESPONSIBILITY OF THE BUYER

TYPE HEAT/TEST	HEAT	829393	0.5	0.97	0.033	0.0005	0.44	18.2	8.1	0.07
----------------	------	--------	-----	------	-------	--------	------	------	-----	------

ITEM TEST NO	YIELD	TENSILE	% ELONG	PSI *	PSI	IN 2"	% R/A	HARDNESS	BEND	GRAIN	HARDENABILITY
001 8763075											
	T 48000.	92500.	55.					83.HRBW	NR	NR	NR
	* Y.S. BY 0.2% OFFSET METHOD										

NR = DATA NOT REQUIRED  
GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

PAGE 01 - CONTINUED ON PAGE 02

08/06/09 11:37:26

CONSIGNEE - Please Note - This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-226-6577. CAUTION: Processing that makes fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information.

WARNING  
Les fiches d'information-sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-226-6577. Attention: les traitements entraînant la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in Allegheny Ludlum's Order Acknowledgement.

Tracy McFarland  
Director, Corporate Quality Assurance

NOTICE OF SHIPMENT/  
PACKING LIST



CERTIFICATE OF TEST

AL 8168-3 908

CUST. ORD. NO. & DATE		CUST. CODE	ACCEPTING MILL	SHIPPER NO.	PRODUCT CODE	MILL ORDER NUMBER	DATE SHIPPED
05349 06/05/09		574738	VANDERGRIFF, PA.	427038	13020102060000	30-069-202	08/06/09
FORMS DISTRIBUTION			GOVT CONTRACT				
SOLD TO	1	94045-0	28	7219.14.0000	1121 VANDERGRIFF	PA	668451
MAGNA STAINLESS		PRIME SEC.	DSO DSO	COILEX	SHIP TO		
5775 KIERAN ST.			20	1450 GRAHAM BELL			
QUEBEC CANADA H4S 0A3				QUEBEC ZIP CODE: J4B 6H5			
SAINT-LAURENT				BOUCHERVILLE CN			

GRADE AND SPECIFICATIONS CARRIER - CUSTOMER TRUCK  
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A) (ASTM-A-370-09) (ASTM-A-480-09)

THIS CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF THE COMPANY. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ALC QUALITY MANUAL REVISION 17 DATED 05/12/2008. ALC HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001. DIN EN 10204:2005 - 3.1. ALLEGHENY LUDLUM IS APPROVED AS A MANUFACTURER ACCORDING TO AD-MERK BLATT WO/TRD100 AND THE PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC. TESTING WAS PERFORMED AT ALC NADCAP AND ISO/IEC 17025 APPROVED LABORATORIES LOCATED AT NATRONA HEIGHTS, BRACKENRIDGE, LATROBE, AND MIDLAND, PA FACILITIES OR A NADCAP AND ISO/IEC 17025 ACCREDITED LABORATORY.

ALLEGHENY LUDLUM PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES:  
C,S BY COMBUSTION/INFRARED  
N,O,H BY INERT FUSION/THERMAL CONDUCTIVITY  
MN,P,SI,CR,NI,MO,CU,CB,CO,V BY WDXRF  
B BY OES  
AL AND TI (>=0.10%) BY WDXRF, OTHERWISE BY OES  
PB,BI,AG BY GFAA

FOR ACCESS TO ONLINE CERTIFICATES OF TEST  
REGISTER AT WWW.ALCEXTRA.COM

PAGE 02 - FINAL PAGE.

08/06/09 11:37:26

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Tracy McFarland  
Director, Corporate Quality Assurance

NOTICE OF SHIPMENT/  
PACKING LIST



CERTIFICATE OF TEST

AL 8168-3 908

CUST. ORD. NO. & DATE		CUST. CODE		ACCEPTING MILL		SHIPPER NO.		PRODUCT CODE		MILL ORDER NUMBER		DATE SHIPPED	
05349		06/05/09 574738		VANDERGRIFF, PA.		427038		13020102060000		30-069-187		08/06/09	
FORMS DISTRIBUTION		REPEAT ORDER		DO RATE		PRI. ORITY		MATERIAL		SHIPPING LOCATION		INVOICE	
SOLD TO		94045-0		28		7219.14.0000		1121 VANDERGRIFF		PA		668450	
1 SHIP TO		PRIME		SEC.		SHIP TO							
MAGNA STAINLESS		DSO		DSO		COILEX							
5775 KIERAN ST.		20				1450 GRAHAM BELL							
QUEBEC CANADA H4S 0A3						QUEBEC ZIP CODE: J4B 6H5							
SAINT-LAURENT						BOUCHERVILLE		CN					

GRADE AND SPECIFICATIONS CARRIER - CUSTOMER TRUCK  
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A) (ASTM-A-370-09) (ASTM-A-480-09)

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MN,P,SI,CR,NI,MO,CU,CB,CO,V BY WDXRF  
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AL AND TI (>=0.10%) BY WDXRF, OTHERWISE BY OES  
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Tracy McFarland -  
Director, Corporate Quality Assurance



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO10809**

Purchase Order Date 11/20/09

PO Print Date 11/20/09

Page Number 1 of 2

Order From :

VC-MAG002

MAGNA STAINLESS  
5775 RUE KIERAN  
ST LAURENT, QC H4S 0A3  
CA

**FAKED**  
C88/11/20

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	800 363 6646	Requisition Nbr	
Vendor Fax	514 339 1105	Tax Resale Nbr	10127-2607
Vendor Account Nbr		Terms	Net 30
		Currency	CAD
		FOB	

Ship To : DART AEROSPACE LTD 1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7.  
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M304S14GA	304SS sheet .080	11/24/09 Yes	✓ 160.00 sf	Yours ppd	\$7.5000	\$1,200.00
		Special Inst: MATERIAL: AISI 304/316 SS SHEET ANNEALED 2B FINISH ASPER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240					
2	M304S16GA	304/316 Sheet .063	11/24/09 Yes	✓ 320.00 sf	Yours ppd	\$5.3125	\$1,700.00
		Special Inst: AS ABOVE					
3	M304R1.750	304 ROUND BAR 1.750	11/24/09 Yes	12.00 f	Yours ppd ✓ NCC 1212 Cory/10/	\$20.5830	\$247.00
		Special Inst: MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 (NOTE: 303 NOT ACCEPTABLE)					

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 11/20/09



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO10809

Purchase Order Date 11/20/09  
PO Print Date 11/20/09

Page Number 2 of 2

Order From :

VC-MAG002

MAGNA STAINLESS  
5775 RUE KIERAN  
ST LAURENT, QC H4S 0A3  
CA

Contact Name

Vendor Phone 800 363 6646

Vendor Fax 514 339 1105

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms

Net 30

Currency

CAD

FOB

4

M303R0.750

303 Round Bar 0.750

11/24/09

Yes

12.00 Yours ppd

\$3.8333

\$46.00

f Net 12-12 / 08/14/27

Special Inst: MATERIAL: AISI 303 ROUND BAR  
(NOTE: AISI 304/316 NOT ACCEPTABLE)

PO Total:

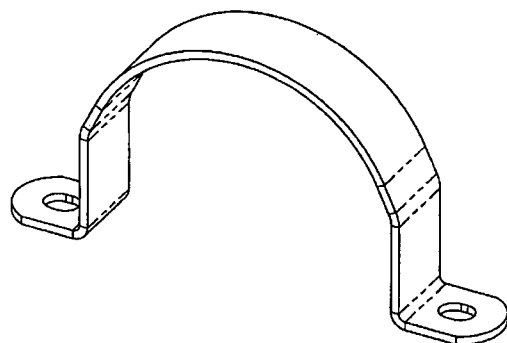
\$3,193.00

MATERIAL CERTIFICATION  
REQ'D UPON DELIVERY

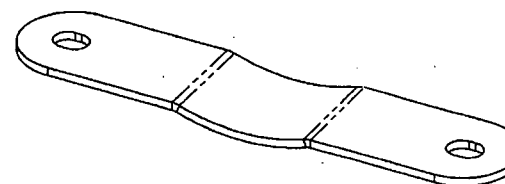
Change Nbr: 1

Change Date: 11/20/09

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable



**D4176-1 429 CLAMP, TOP**



**D4176-3 429 CLAMP, BOTTOM**

**RELEASED**  
2010-10-07  
MM

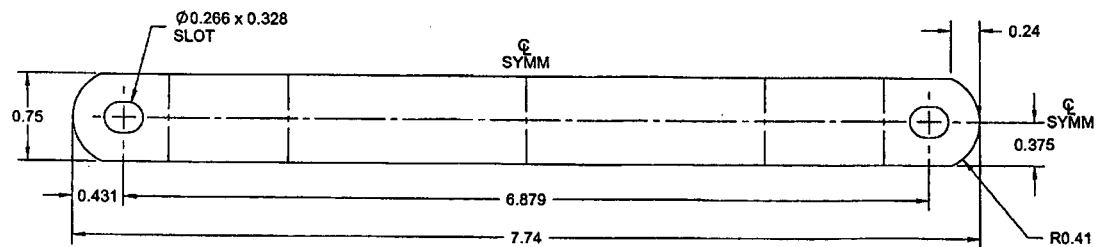
**NOTES:**

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET ANNEALED 2B FINISH, 14 GAUGE (0.078 THICK)  
PER AMS 5513 (304) OR 5524 (316) OR ASTM A240 OR ASME SA240  
REF. DART SPEC. M304S14GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4176-X" PER QSI 044 6.1
- 7) WEIGHT:
  - D4176-1 = 0.12 lbs
  - D4176-3 = 0.08 lbs

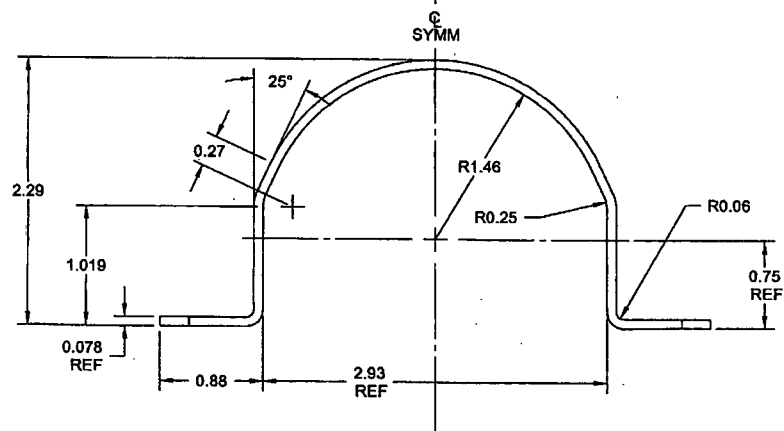
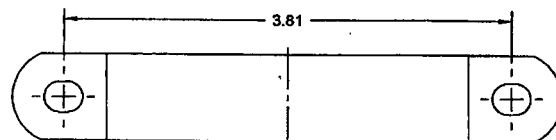
A	NEW ISSUE	MB	10.09.27
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.09.27		

<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. <b>D4176</b>	REV. A
TITLE <b>429 CLAMP</b>	SHEET 1 OF 3
	SCALE NTS

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**D4176-1F 429 TOP CLAMP FLAT PATTERN**

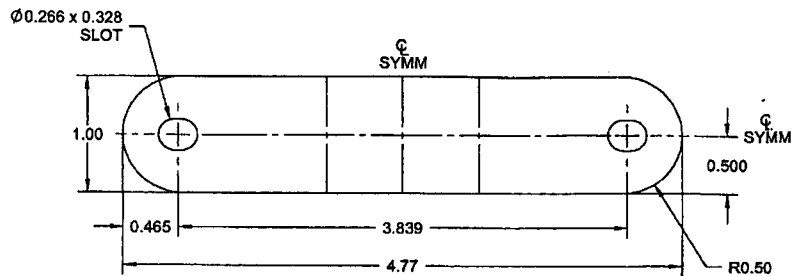


**D4176-1 429 CLAMP, TOP**  
(MAKE FROM D4176-1F)

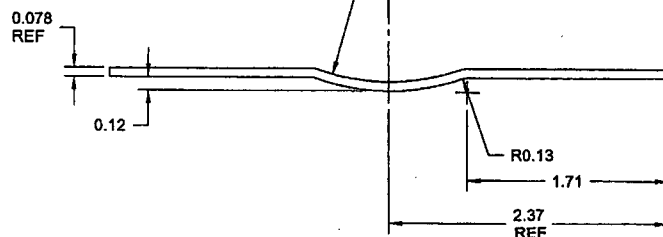
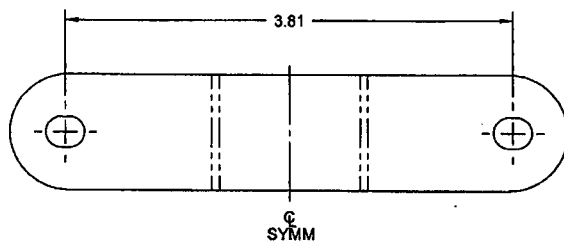
**RELEASED**  
2010-10-03  
*mp*

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D4176	SHEET 2 OF 3
APPROVED		TITLE	SCALE
DE APPR.		429 CLAMP	NTS
DATE	10.09.27	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR DISCLOSED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	





**D4176-3F 429 BOTTOM CLAMP FLAT PATTERN**



**D4176-3 429 CLAMP, BOTTOM**  
(MAKE FROM D4176-3F)

**RELEASED**  
2010-10-07  
AMP

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		<b>D4176</b>	SHEET 3 OF 3
APPROVED		TITLE	SCALE
DE APPR.		<b>429 CLAMP</b>	NTS
DATE	10.09.27	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON OR ENTITY WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	